

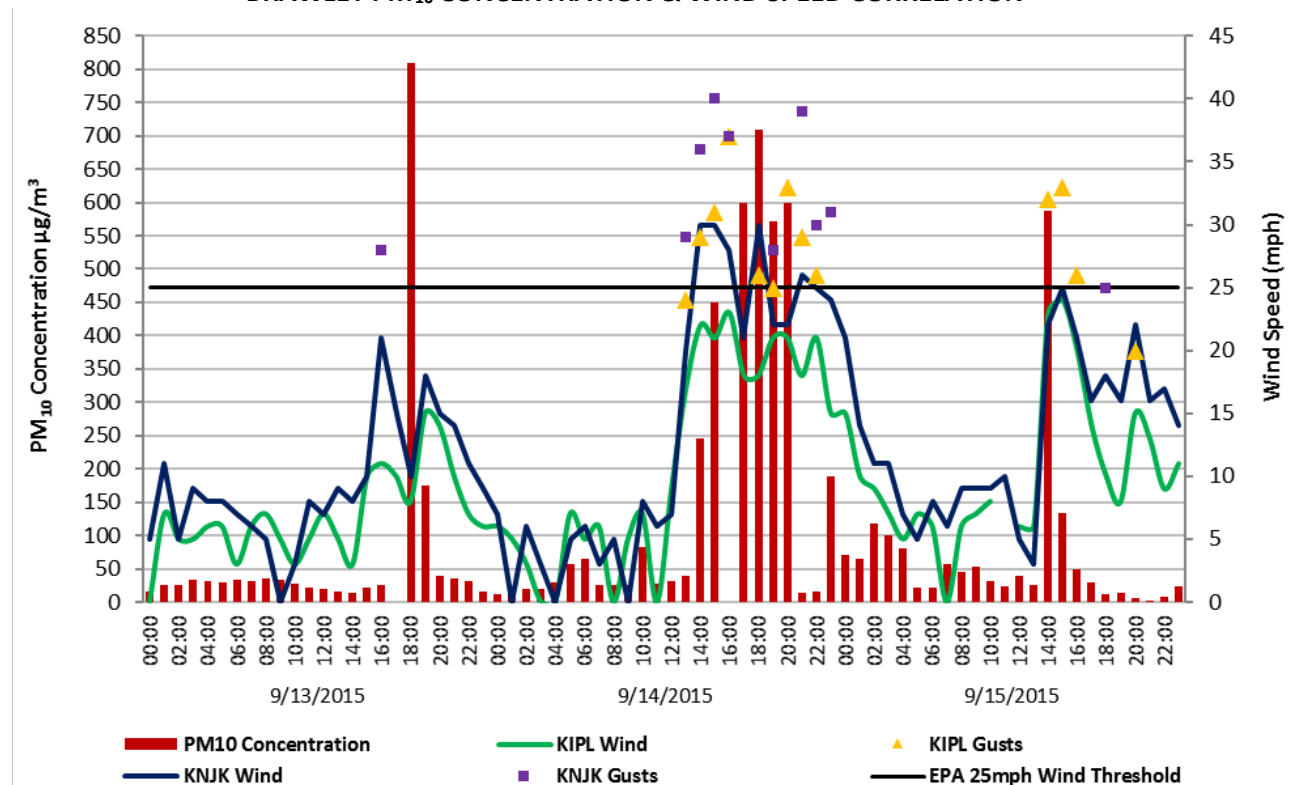
## Appendix C

### Correlated PM<sub>10</sub> Concentrations and Winds

The following graphs illustrate the direct correlation between wind speeds<sup>1</sup> and PM<sub>10</sub> concentrations at select monitoring sites within the Salton Sea Air Basin on September 14, 2015. Note a variety of instruments measure wind speed at different times during any given hour. Therefore, the following graphs reflect the hour of the wind measurement.

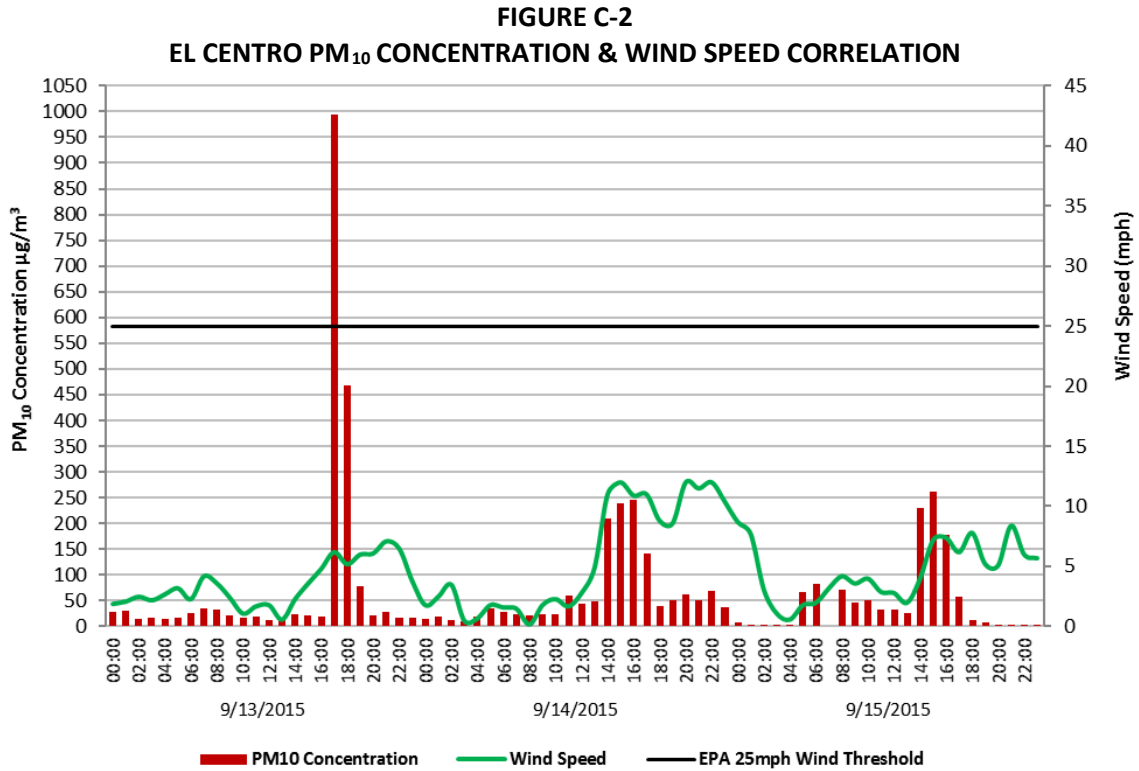
#### IMPERIAL COUNTY SITES (FIGURES C-1 to C-4)

**FIGURE C-1**  
**BRAWLEY PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**

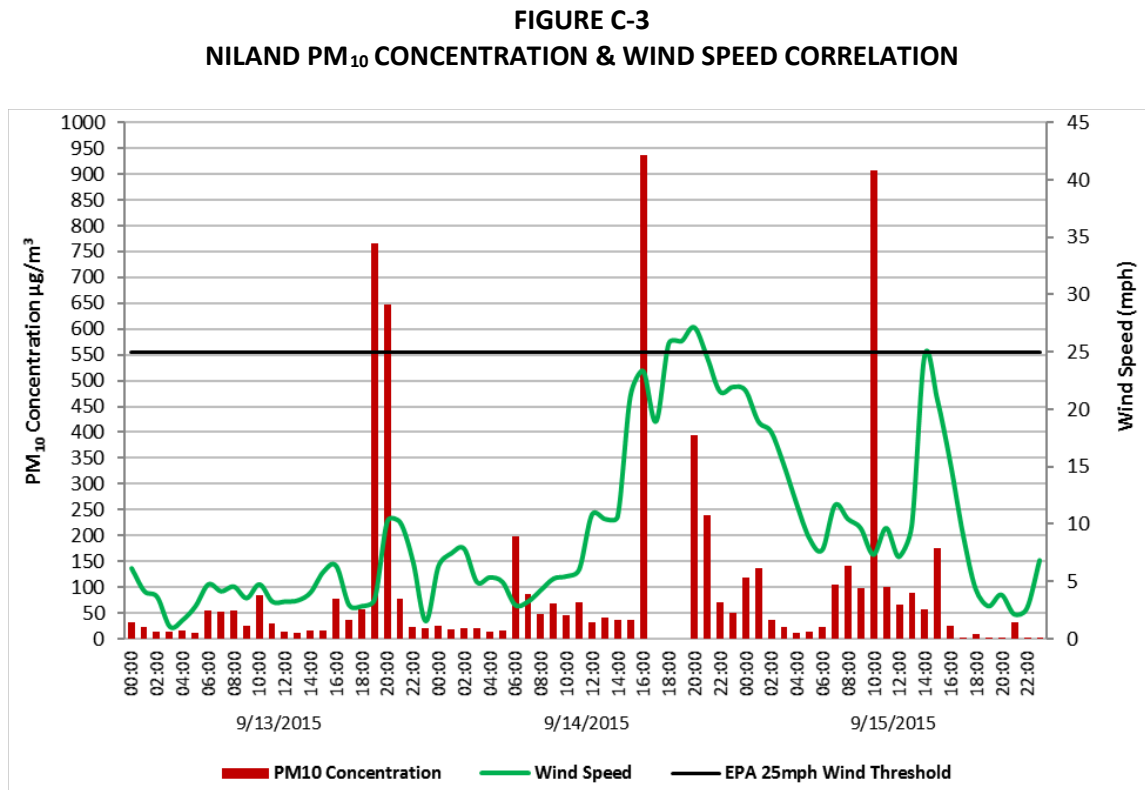


**Fig C-1:** Brawley does not have on-site meteorological instruments. Imperial Airport (KIPL) and El Centro NAF (KNJK) are used here. Air quality data is from the NCEI's QCLCD data bank

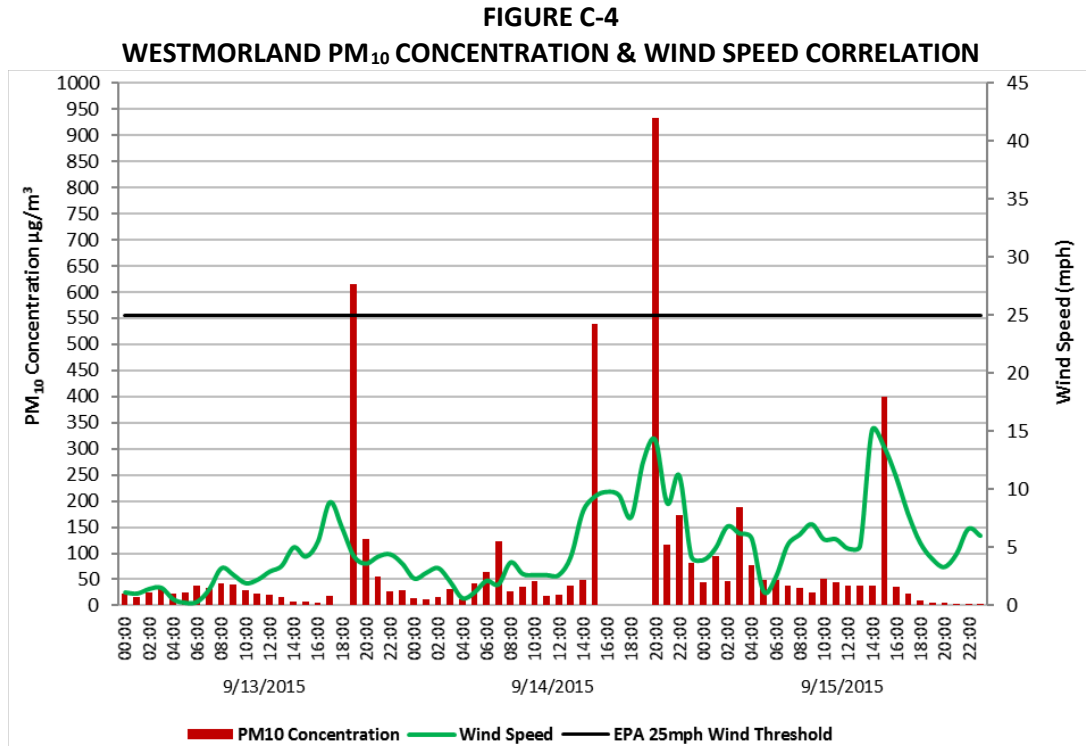
<sup>1</sup> National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); <https://w1.weather.gov/glossary/index.php?letter=w>



**Fig C-2:** El Centro's wind and air quality data is from the EPA's AQS data bank

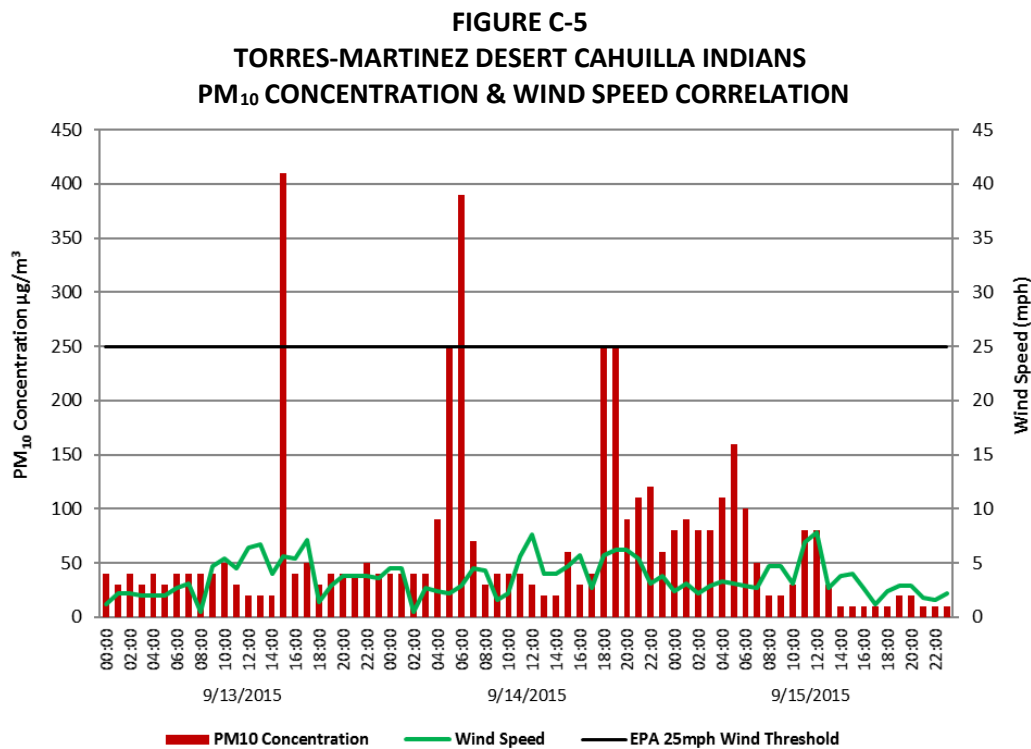


**Fig C-3:** Niland wind and air quality data is from the EPA's AQS data bank

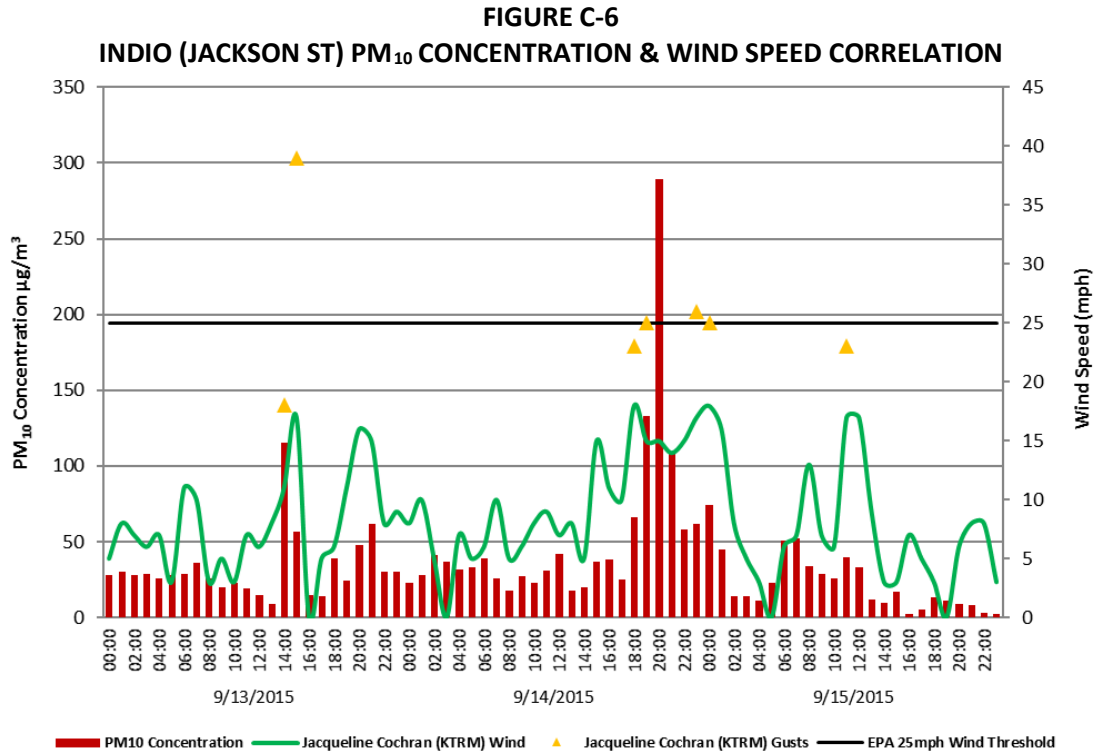


**Fig C-4:** Westmorland's wind and air quality data is from the EPA's AQS data bank

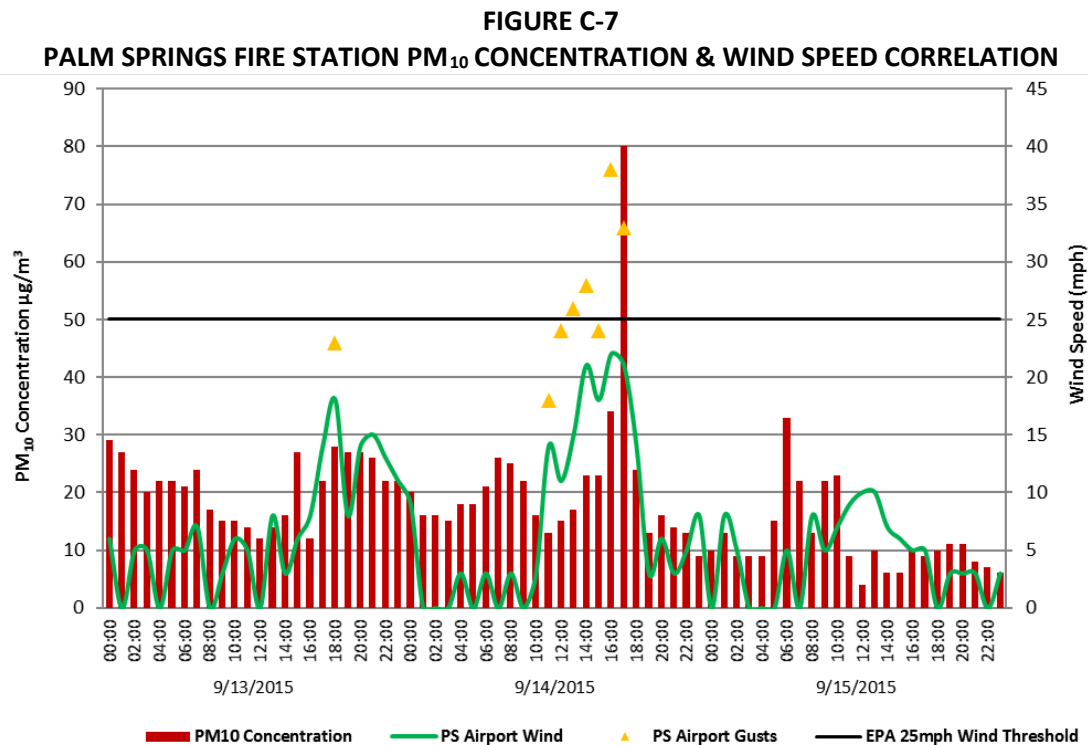
### EASTERN RIVERSIDE COUNTY MONITORING SITES



**Fig C-5:** Air quality and wind data is from the EPA's AQS data bank



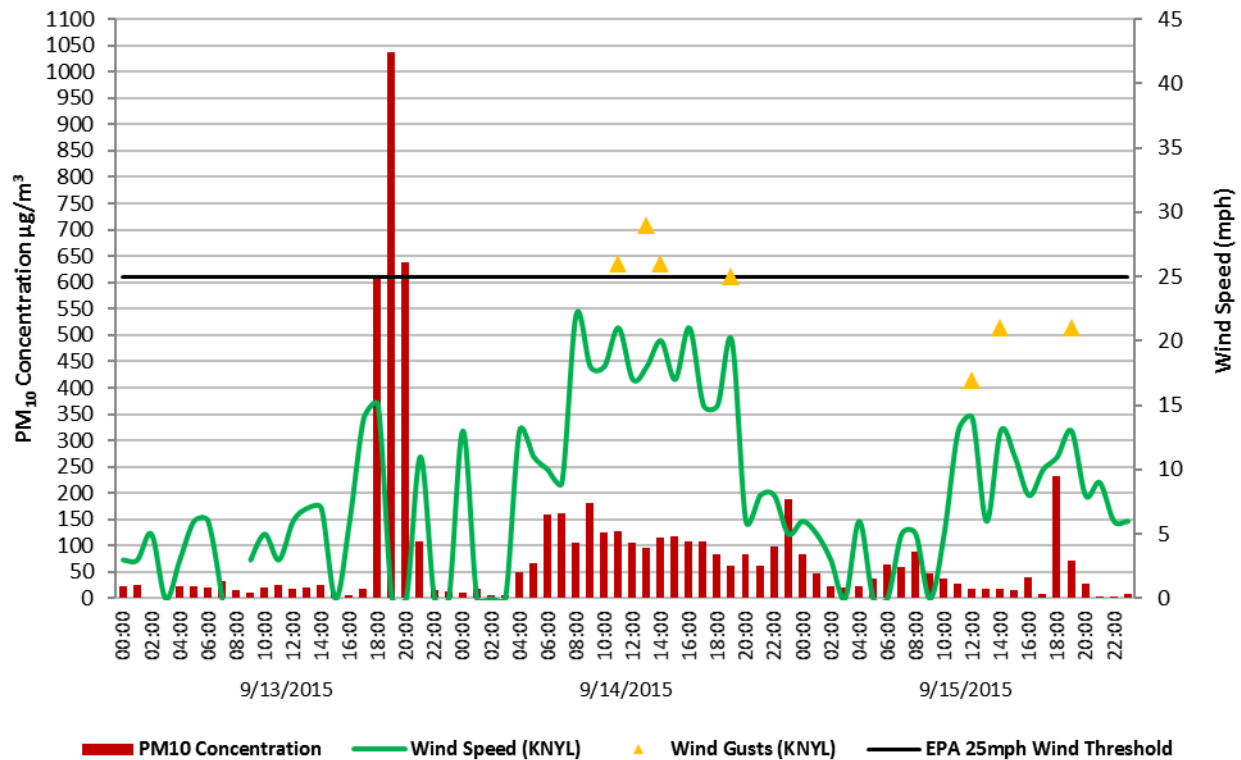
**Fig C-6:** Air quality is from the EPA's AQS data bank. Wind data from the NCEI's QCLCD



**Fig C-7:** Air quality is from the EPA's AQS data bank. Wind data from the NCEI's QCLCD, for Palm Springs Airport

## SOUTHWESTERN YUMA COUNTY, ARIZONA MONITORING SITES

**FIGURE C-8**  
**YUMA SUPERSITE PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**



**Figs C-8:** Yuma monitoring site in Yuma, Arizona, is located to the southeast of Brawley in extreme southwestern Yuma County. The site saw corresponding increases in particulate matter as wind speed increased during the day, demonstrating the regional impact of the wind event on September 14, 2015. Air quality is from the EPA's AQS data bank. Wind data from the NCEI's QCLCD